

ABSTRACTMETHOD AND APPARATUS FOR SYNCHRONISATION

The present invention provides a method and a device in which two or more
5 fingers of a RAKE receiver can be locked to a multipath received signal in a
situation of fat finger impulse response. One embodiment of the present
invention assigns two RAKE fingers to an impulse response so that one finger
is tracking the impulse response with Early-On-time DLL method and the other
finger is tracking the impulse response with On-time-Late DLL method. The
10 method comprises detecting the delay between the received signal and its
delayed version, comparing the delay with a pre-determined threshold and in
the case when the delay falls below the threshold, changing the tracking
method of the delayed version of the received signal to a second tracking
method.

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Figure 3

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